A LaTeX document that uses citations

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This document is created partly to get to know LaTeX , and partly to test the functions of BibTeX. Following is a list over the subjects I will adress in my individual curriculum:

- Complete the implementation and testing of the program from the DigMap course
- Implement and test a BLG-tree [8]
- Learn how to use LaTeX
- Write an article
- Implement and test a Reactive-Tree [9] and a GAP-Tree [10]

0.1 More information

At the present time, the first two points are in the finishing stage, and this document is a part of the LaTeX-section of my curriculum. I will start writing the article very soon, and the final implementation-point is optional, and will be omitted if time runs out...

1 Citation section

This section is really just to make sure all the entries in my bibliography-file are citated, so that I can make sure that they are entered correctly. First of all I would like to refer to the article that started this whole mess: The "Raster-Vector article" by Li and Openshaw [3]. Then comes the only book that I have bought, and it is about Computational Geometry [1]. In books that I have borrowed from my teaching supervisor, Gunnar Misund [5], I have read the following articles:

- Generalization of Spatial Data: Principles and Selected Algorithms [11]
- The Binary Line Generalization Tree [8]
- The Ractive-Tree [9]

I will also read an article previously published by the journal [6]. An important structure in my previous work, is the priority search tree, presented by McCreight [4], and described by Prof. Tamassia [7]. The other aspect of my work, in addition to generalization, is orthogonal range queries, here presented by Piotr Indyk [2].

Have a nice day :)

References

[1] Mark de Berg, Marc van Kreveld, Mark Overmars, and Otfried Schwarzkopf. *Computational Geometry - Algorithms and Applications*. Springer, Berlin, 2nd revised edition, 1999.

[2] Piotr Indyk. Lecture 5: Orthogonal Range Queries, September 2003.

[3] Zhilin Li and Stan Openshaw. Algorithms for automated line generalization based on a natural principle of objective generalization. *International Journal of Geographical Information Science*, 6(5):373–389, 1992.

[4] Edvard M. McCreight. Priority Search Trees. *SIAM J. Comput.*, 14(2):257–276, 1985.

[5] Gunnar Misund, 2004.

[6] P. M. Van Der Poorten and Christopher B. Jones. Characterisation and generalisation of cartographic lines using Delaunay triangulation. *International Journal of Geographical Information Science*, 16(8):773–794, 2002.

[7] Prof. Robert Tamassia. Lecture 9: Priority Search Trees - Part I. Technical Report C.S. 252, Computational Geometry, March 1993.

[8] Peter van Oosterom. *Reactive data structures for geographic information systems*, chapter 5 The Binary Line Generalization Tree, pages 83–88. Oxford University Press, Oxford, 1993.

[9] Peter van Oosterom. *Reactive data structures for geographic information systems*, chapter 6 The Reactive-Tree, pages 88–98. Oxford University Press, Oxford, 1993.

[10] Peter van Oosterom. The GAP-tree, an approach to "On-the-Fly" Map Generalization of an Area Partitioning. In *GISDATA Specialist Meeting on Generalization*, December 1993.

[11] Robert Weibel. *Algorithmic Foundations of Geographic Information Systems*, chapter Generalization of Spatial Data: Principles and Selected Algorithms, pages 99–152. 1997.